

683-1141

			G	0) 110	'		
TOPM WW-ZE						Page <u>l</u>	of <u> </u>
99				OF WEST			
24266	DIVISIO					FFICE OF OIL	AND GAS
0	Well Operator:			RK PERMIT oration 31		(3	18
	well Operator.	Cabot On a	c das corpe	oration or	7)	(y)	
Operator's Well Number: R. Hedrick #1 3) Elevation: 3260.76'							3260.76'
	Well Type:	a) Oil _	/ or	Gas	<u> </u>	lose	ned 10/08/97 Nes 10/08/99
		b) If Gas	: Pro	duction>		ground Storage	
5)	Decreased Toward	Four chian(a)	ا ما ما	Deep x Oriskany 475		Shallow	/
5)	Proposed Target	rormation(s)	: Unsk	$\frac{\text{any}}{4+3}$	7		
6)	Proposed Total I	Depth:	86	500	feet		Office of the second of the se
7)	Approximate fre	sh water strat	a depths:			122', 474'	Office of the state of the stat
8)	Approximate sal	t water depths). -			N/A	
9)	Approximate coa	ıl seam depths	*			N/A	~
10)	Does land contain	n coal seams t	ributary to	active mine	? Yes	/ No	x/
			·			***************************************	
11)	Proposed Well V	Vork: <u>Dril</u>	l & complet	te a gas well	based on Rai	ndolph 1139.	-
							2 24.17
12)			~.~~~				38CSR1811.3 38CSR1811.2.0
			CASING A	AND TUBIN	G PROGR	<u>AM</u>	20CR1811.2-0
	TYPE	CDECT	FICATION	ic.	FOOTA	GE INTERVAL	LS CEMENT
	A A A A A	JI ECI	PICATION	Weight	For	Left in	······································
		Size	Grade	per ft.	Drilling	Well	Fill-up (cu. ft.)
Cor	ıductor	13 3/8"	L.S.	54.5#	80'	80'	80 SKS (GFS)
	sh Water	9 5/8"	J-55	36#	1600'	1600'	530 SKS (CTS)
Coa				2011	1000	1 1000	330 SRS (C15)
	ermediate	*7	J-55	20#	3000'	3000'/	450 SKS (CTS)
	duction	4 1/2"	N-80	11.6#	8550'	(8550')	200 SKS
~~~~~~~~~~	oing					1	
Liners 20/5RIBM.							
Source II.							
PACKERS: Kind							
Sizes							
Depths set							
For Office of Oil and Gas Use Only							
	Fee(s) paid: Well Work Permit Reclamation Fund						
	Plat WW	-9	W-2B	Bond	(Type)	****	Agent
*7 ti	*7 to be run, at Company's discretion, only if water is encountered below 9 5/8" and causes problems drilling well to T.D.						

meel charle flat

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## STATE OF WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION

#10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

October 6, 1997

Division of Environmental Protection Office of Oil and Gas Nitro, West Virginia

Re: Application for Permit #47-083-01141 to drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: Riley C. Hedrick #1

COUNTY: Randolph DISTRICT: Dry Fork QUAD: Whitmer

The application of the above company is <a href="Approved for Oriskany">Approved for Oriskany</a>.

(Approved or Disapproved)

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; yes
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; *yes
- 3.) Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely

Engineer

*3,132 feet to 47-083-01139



## Cabot Oil & Gas Corporation

_		P.1/1			
Post-it® Fax Note	7671	Date /0 - 6 pages /			
To Bolt don	len	From On A Harris			
Co.º/Dept.		co. 010			
Phone #		Phone # (41) 294 = 2050			
Fax # (304) 759.	0529	Fax #			
\ /					

October 6, 1997

Via Facsimile (304) 759-0529 and Regular Mail

State of West Virginia
Division of Environmental Protection
Office of Oil & Gas
10 McJunkin Road
Nitro, WV 25143-2506

ATTN: Brett Loflin

RE:

R. Hedrick #1 Well Dry Fork District

Randolph County, WV

COGC Lease File No. 47-10347

Dear Brett:

Please be advised that I have reviewed the lease file, lease plat and well site plat and find that the referenced location is legally located from all applicable lease lines.

The plat prepared by Steven D. Losh dated August 26, 1997 reflects some interior tract lines and not lease lines, giving the appearance that the well is illegally located in that it is not more than 400 feet from the eastern-most line depicted on the plat. My review indicates that the well is, in fact, located more than 400 feet from all lease lines.

Please advise if you need any further information in this matter.

Very truly yours,

Jeffrey L. Keim

Regional Land Manager

JLK/aw

cc:

Ray Prudnick

		MECE					
Page 1	of L	Environ Divis VE	1)	Date Ser	otember 4,	1997	
Form WW-2A SED		2)	Operator's well number				
(6/94)		SEP 13 100	,	Hedrick #1			
FILE C	COPY	Offe Person	3)	API Well N	lo 47 -	083	- 1141
		Office of ON & G.	ŕ		State	County	Permit
		STATE OF WEST VIRGINIA	יים רובו אות	A WI OF ET BINIS	. / ₩ ₩	ריים או <i>רווי</i> ים	
		DIVISION OF ENVIRO				FINI	•
		OFFICE O			CHON		
					anz nen	A ATT	
		NOTICE AND APPLICATIO				AIII	
4)		vner(s) to be served	5)	(a) Coal O	-		
	· · · -	Riley C. Hedrick		Name	Not Oper	ated	
	Address	HC 73, Box 3		Address			
	· -	Seneca Rocks, WV 26884-9222				·	
	(b) Name			(b) Coal O	wner(s) wi	th Declarati	on
	Address	· · · · · · · · · · · · · · · · · · ·	MANAGEMENTALIN	Name	N/A		
				Address			
	(c) Name						
	Address			Name	N/A		
				Address			
6)	• .	Phillip Tracy		` '	wner with	Declaration	
	Address	Route 2, Box 37-A		Name			<del></del>
		Montrose, WV 26283		Address		e ^c	
	Telephone	(304)626-0787	<del></del>				
		TO THE PERSON(S) NAME	D ABOV	E TAKE NO	TICE TH	IAT:	
	Included is th	he lease or leases or other continuing con	tract or cont	racts by which	I hold the ris	ght to extract o	nil and gas OR
X		he information required by Chapter 22, A					
		as required under Chapter 22 of the West					
a locatio		companying documents pages 1 through	01	n the above nar	ned parties, b	oy:	
		sonal Service (Affidavit attached)					
-		tified Mail (Postmarked postal receipt att	ached)				
-	Puc	olication (Notice of Publication attached)	***				
		nd understand Chapter 22-6 and 38 CSR	11-18, and	I agree to the to	erms and cor	nditions of any	permit issued
under th	is application.					a e	
annlicati		er penalty of law that I have personally exall attachments, and that based on my inq					
		that the information is true, accurate and		individuais iii	inficulately is	esponsione for	ootaming the
		hat there are significant penalties for sub-		information, i	ncluding the	possibility of	fine and
imprisor	iment.						
		Wel	Operator		& Gas, Confo	gration	
			By		will	orus	
Its Geologist					D	400	
			Address		ay Drive Su	nte 400	
			Telephone	•	, PA 15108		
Subscribed and sworn before me this 4th day of			. cichiiniic	September		97	
		Cerrenia PIT Stea	enga	Notary Pu			

June 17, 2000

Notarial Seal
Cynthia M. Stegenga, Notary Public
West Bethlehem Twp., Washington Count
My Commission Expires June 17, 20, 3

My commission expires

KAN
114

1-Sept-98 47-083-01141

Date: API #

Division	tate of West Virginia of Environmental Proection of Oil and Gastrator's Report of We			
Farm name: Hedrick. Riley C.	Operato	or Well No.:	L. Hedrick #1	
-		Whitmer County: Ra DEG. 52 DEG. 30	ndolph MIN. MIN.	30 SEC. 0 SEC.
Company: Cabot Oil & Gas Corporation 400 Fairway Drive: Suite 400 Coraopolis, PA 15108-4308	Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
Agent: John Abshire Inspector: Phillip Tracy Permit Issued: 10/8/97		63'	63'	15 sks Class "A"
Well Work Commenced: 12/17/97 Well Work Completed: 2/13/98 Werbal Plugging Permission granted on:	9-5/8"	1629'	1629`	530 sks Class "A"
Rotary X Cable Rig  Frotal Depth (feet) 8679'  Fresh Water Depths (ft) 230'	4-1/2"	8635`	8635`	375 sks Class "A"
Salt Water Depths (ft)				
s coal being mined in area (Y / N)?  Coal Depths (ft)	N			
OPEN FLOW DATA				
Producing formation Lower Oriskany Gas: Initial open flow MCF/d Final open flow 119 MCF/d Time of open flow between initial a Static rock pressure 1800 psig (surface)	Oil: Initial oper Final open	flow N/A	- 8456` Bbl/d Bbl/d Hours Hours	
Second producing formation  Gas: Initial open flow MCF/d  Final open flow MCF/d  Time of open flow between initial a  Static rock pressure psig (surfa	Oil: Initial oper Final open and final tests ace pressure after	flow	Bbl/d Hours Hours	
NOTE: ON BACK OF THIS FORM PUT THE FOL OR STIMULATING, PHYSICAL CHANGE, ETC GEOLOGICAL RECORD OF ALL FORMATION	<ol> <li>2). THE WELL 1</li> </ol>	LOG WHICH IS A	A SYSTEMAT D BY THE W	IC DETAILED

WR-35

## OPEN FLOW DATA

Perf d Lower Oriskany @ 8446' - 8456'. Broke down with 250 gals of 15% HCl acid. BDP: 5000 psi. ISIP: 2500 psi. Pumped 750 gals of 15% HCl acid with 60 perf balls and displaced with 430 bbls of treated water @ 12 bbl/min and 3600 psi. Fractured well with 1400 bbls of treated fluid with 78,500# of 20/40 mesh sand. ATP: 3500 psi. MTP: 4404 psi. AIR: 22 bpm. ISIP: 3180 psi.

FORMATION	TOP	ВОТТОМ	REMARKS
Soil/Fill	0	2 · · · · · · · · · · · · · · · · · · ·	
Sand/Shale	2	2188	
Shale/Sand	2188	2431	
Shale	2431	2717	
Sand	2717	2800	
Shale/Sand	2800	3148	
Sand	3148	3262	
Shale/Sand	3262	4275	
Shale	4275	4454	
Shale/Sand	4454	5110	
Shale	5110	6581	
Sand	6581	6601	
Shale	6601		
Tully	7447	7447	
Shale		7482	
Tully	7482	7504	
Shale	7504	7533	
	7533 7573	7878	
Upper Marcellus	7878	7933	
Purcell	7933	7990	
Lower Marcellus	7990	8072	
Onondaga	8072	8177	
Huntersville	8177	8272	
Needmore	8272	8328	
Oriskany	8328	8560	
Helderberg	8560	8679 - TD	